ADS AUTOMATED DESIGN SYSTEM

Bendix **Advanced Products Division**

The Bendix Automated Design System

Means savings of dollars and hours in your drafting room

- Performs two- and three- dimensional calculations quickly and accurately
- Improves layout clarity and neatness by reducing the need for auxiliary views
- Requires no special drawing apparatus or procedures
- Produces a clearly typed record of computations
- Can be operated by personnel with no computer knowledge

Now for the first time you can have a system that will free you from hours of routine design work. In seconds, the Bendix ADS will perform tasks ranging in complexity from layout checking to descriptive geometry calculations. And operation is simple; all you do is record data from a special "menu" of questions and from your drawing via a free-moving cursor. The computer does the rest.

YOUR KEY ADS TOOLS . . . .

CURSOR

The cursor is your new pencil – just place it on the board and press the control buttons to

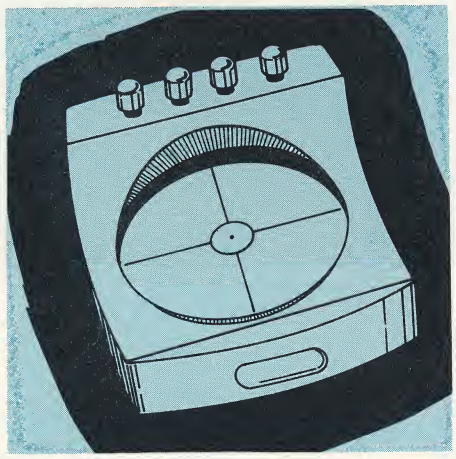
- Record coordinate location
- Establish an origin
- Indicate recording completion
- Delete wrong data points

DISPLAY

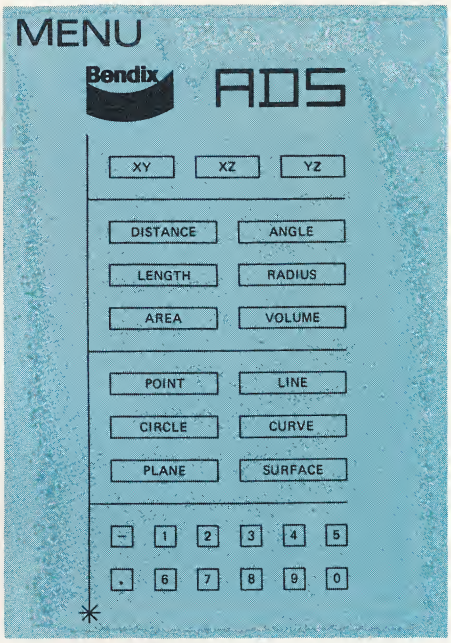
The display indicates the X, Y location of the cursor on the board. Since you can establish your origin anywhere on the work surface, the display gives you a constant check of your location relative to your drawing coordinates.

TELETYPEWRITER

All of your work is done on the board. The teletypewriter is used to print instructions, input data, and solutions. In addition, the teletypewriter can be used to add new programs to the system and to prepare paper tapes.



HOW ADS WORKS FOR YOU . . . .



You define your question to the computer by placing the cursor on the appropriate "boxes" on the menu and recording the information. For example, you would record:

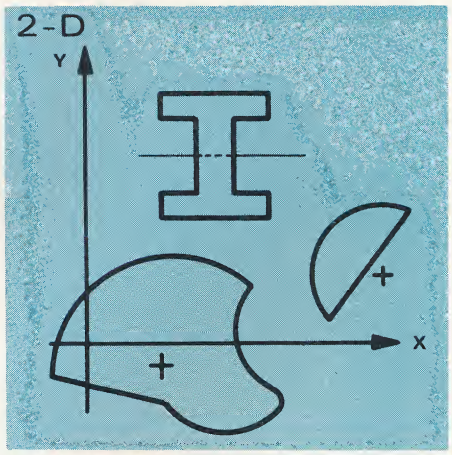
DISTANCE POINT LINE to find the distance between a point and a line.

XZ YZ LENGTH CURVE to find the true length of a curve from two given views.

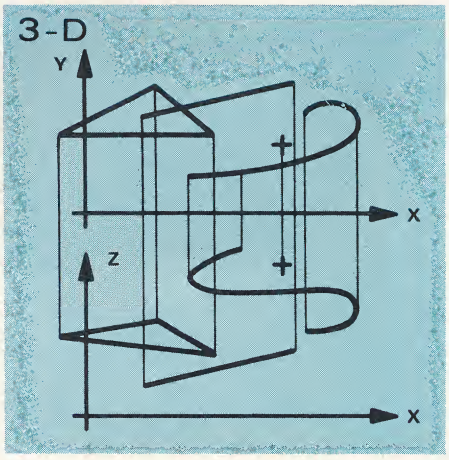
4 2 7 for program 427, which may be your special design problem that was added to the system.

After defining your problem through the menu, you digitize the layout and get immediate answers for two- and three- dimensional problems such as

- Areas of full or partial circles
- Areas of closed curves
- Distances, clearances, and lengths
- Radii and center locations of arcs
- Slopes and angles
- Centroids and moments of inertia
- Scaling and dimensioning
- Coordinate translation, rotation, and polar conversion



- Clearances and their locations from point to line, plane, or curve; from line to line or curve; and from curve to plane or curve
- Clearances and their locations from surface to point, line, curve, or plane
- Lengths of curves
- Angles between lines and planes
- Volumes enclosed by surfaces
- Areas of surfaces



Standard Features

WORK SURFACE:	42 x 60 inch all-electronic digitizing surface mounted on a standard drafting table with tilt and height controls. Normal drafting work can be done on the surface, and digitizing through an aluminum or copper plate up to 0.010 inch thick is possible.
RESOLUTION:	0.001 inch.
OVERALL ACCURACY:	± 0.005 inch.
REPEATABILITY:	± 0.001 inch.
DISPLAY:	Five digits and sign displayed for each axis.
SYSTEM INTERFACES:	System is provided with an acoustic coupler and ASR 33 teletype-writer. These can be used with • Your in-house computer facility • Time-share computer service • Small dedicated computer.
OUTPUT:	Teletype ASR 33 page printer, paper tape punch, and tape reader are used in the system for printed output or paper tape preparation.
POWER:	110 to 125 VAC, 60 cps, single phase.
PRICE:	With teletypewriter, teletypewriter interface, acoustic coupler and FORTRAN II Software: $19,500.
For Further Information Contact:	Marketing Manager, Automated Graphics Telephone No. (313) 352–7661 Prices and specifications subject to change without notice.

Bendix Advanced Products Division

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